



# RING FORGINGS PRIVATE LIMITED

A-283/284, 6th main, 2nd Stage, Peenya Industrial Estate, BANGALORE - 560 058.

Tel: (080) 40201704 / 28361693 Fax:- (080) - 28367197 email : ringforgings@gmail.com / Website : www.ringforging.com

## TEST CERTIFICATE - EN 10204 : 3.1

TC No. : RF / TC / 0238B / 2026-27 DATE : 09.04.2026

1. Customer : M/s. JC VALVULAS INDIA PVT LTD 4. Heat Number : FD900  
2. P.O. No. : JCRM-2526-0217 5. Invoice Number : RF/2627/0238  
3. Material : ASTM A182 Gr. F316-25A 6. Forging Ratio : 3 : 1 Min

### COMPONENT DETAILS

SL.NO.	PART DESCRIPTION	PART NUMBER/ DRAWING NO	Qty
1	PROOF M/CED FORGED BAR OD 74 X ID 34 X 28 MM	XRM-074-028-034-34I-314	10

### CHEMICAL COMPOSITION (Wt.%)

Elements	C%	Mn%	Si%	S%	P%	Ni%	Cr%	Mo%	N%
Min	-	-	-	-	-	10.00	16.00	2.00	-
Max	0.080	2.00	1.000	0.030	0.045	14.00	18.00	3.00	0.10
Product Values	0.021	1.560	0.320	0.024	0.035	10.090	16.680	2.090	0.081

### HEAT TREATMENT

HT Batch No.	TYPE OF HEAT TREATMENT	TEMPERATURE	SOAKING TIME	COOLING MEDIA
PC3881	SOLUTION ANNEALING	1050 ° C	6 HOURS	WATER

### MECHANICAL TEST AS PER ASTM A370

PARAMETER	UTS - Mpa	Offset YS 0.2 % - Mpa	%EL	%RA	HARDNESS - HBW	-
Min	515	205	30	50	-	-
Max	-	-	-	-	237	-
Actual Values	571	328	55.8	68.7	157 - 161	-

Supply Condition : FORGED, SOLUTION ANNEALED & PROOF MACHINED.

Identified as follows: RFPL / F316/ PART NO / HEAT NO : FD900

### Remarks :

- (1) SPECIFICATION AS PER JC-MDS-34I Rev.9 AND SP-314
- (2) NO WELD REPAIR WAS CARRIED OUT, NO VISIBLE DEFECTS, INCLUDING SEAMS, LAPS, AND FOLDS
- (3) MATERIAL CONFORMS TO NACE STD. MR 0175 : 2021 / ISO 15156 : 2020 & MR0103:2015.
- (4) MATERIAL IS FREE FROM RADIOACTIVE CONTAMINATIONS.
- (5) VISUAL EXAMINATION WAS PERFORMED AND RESULTS FOUND SATISFACTORY AS PER ASME BPVC Section VIII, Division 1, UF-45 AND UF-46

We hereby certify that the items mentioned above have been tested and inspected in our presence in accordance with drawings and satisfy the requirements of ASTM A182 Gr. F316-25A. The results comply with product description.

For RING FORGINGS PVT LTD



NISHANTH G  
QA ENGINEER

JC Valvulas India Pvt. Ltd.  
Chennai, Tamil Nadu, India  
Verified & Accepted  
Q.A. *C. Sathiyamoorthy*



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## ULTRASONIC INSPECTION REPORT

UIR No. : RF / UT / 0238B / 2026-27

DATE : 09.04.2026

1. Customer : M/s. JC VALVULAS INDIA PVT LTD

4. Heat No. : FD900

2. P.O. No. : JCRM-2526-0217

5. Invoice Number : RF/2627/0238

3. Material : ASTM A182 Gr. F316-25A

### COMPONENT DETAILS

SL.NO.	PART DESCRIPTION	PART NUMBER/ DRAWING NO	Qty
1	PROOF M/CED FORGED BAR OD 74 X ID 34 X 28 MM	XRM-074-028-034-34I-314	10

### EQUIPMENT , PROBE & TESTING DETAILS

Apparatus :- EINSTEIN - IIDGS [Modsonic]

Stage of Test :- After Heat Treatment

SI No.:- E5484-9170

Surface Condition :- Proof machined

#### Sensitivity Settings

Testing Presentation :- A - Scan

Probe Type :- NM-4LS

Wave Propagation :- Longitudinal

Probe Size :- DIA 10 mm

Couplant :- Oil

Frequency :- 4 MHz

Scanning Speed :- 4 inch / sec

Cable :- BNC TO MINILEMO

Basic Calibration Block :- IIW V1 Block

Full Screen Range :- 0 to 135 mm

Area Coverage :- All possible volume scanned.

Scanning dB :- 32 + 6 dB

Reference Method :- DGS

Procedure :- PS05/17B Rev 05

Acceptance Criteria :- ASME SEC V Article 4 / ASME B16.34 APPENDIX IV

REMARKS :- No Significant discontinuity noticed.

TEST RESULT :- Found Acceptable.

TESTED BY

Darshan Gowda DL  
ASNT UT LEVEL II

REVIEWED & ACCEPTED

C. Bathing

SHISH KUMAR .C  
RT, UT, MT, PT Level  
JC Valvulas



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## DYE PENETRANT INSPECTION REPORT

DPR No.: RF / DP / 0238B / 2026-27

DATE : 09.04.2026

1. Customer : M/s. JC VALVULAS INDIA PVT LTD

4. Heat No. : FD900

2. P.O. No. : JCRM-2526-0217

5. Invoice Number : RF/2627/0238

3. Material : ASTM A182 Gr. F316-25A

### COMPONENT DETAILS

SL.NO.	PART DESCRIPTION	PART NUMBER/ DRAWING NO	Qty
1	PROOF M/CED FORGED BAR OD 74 X ID 34 X 28 MM	XRM-074-028-034-34I-314	10

### TEST DETAILS

Test Procedure / Acceptance Criteria	: PS05/19 Rev.06/ ASME SEC V Art 6/ ASME B16.34 Appendix III
Extent of Examination	: 100%
Surface Condition	: Proof Machined
Job Surface Temperature	: Ambient Temperature 25 deg C.
Test Method	: Colour Contrast Solvent Removal Type
Penetrant Application	: By Brush
Dwell Time	: 20 MINUTES
Developer Applications	: Manufacturer - ITW
Development time	: 10 Minutes
Light Intensity	: 1192 LUX
Observation	: No relevant indication noticed.
Results	: Accepted
Post Cleaning	: Done by Cleaner

### CONSUMABLES DETAILS

CONSUMABLES	MAKE	BATCH NO.	Expiry Date
CLEANER	MR CHEMIE	2506	Mar-26
PENETRANT	MR CHEMIE	2513	Apr-26
DEVELOPER	MR CHEMIE	2516	Apr-26

REMARKS :- No Significant discontinuity noticed.

TEST RESULT :- Found Acceptable.

TESTED BY

Darshan Gowda DL  
ASNT DPT LEVEL II

REVIEWED & ACCEPTED

VISH KUMAR .C  
RT, UT, MT, PT Level  
JC Valvulas



# SSAMET LABS LLP

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## Test Report

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ULR-TC90492600002291F

Report No.	26-2198-1-1	Report date	09-04-2026
Customer Name & Address.	M/s. Ring Forgings Private Limited No:A-283/284 ,6th Main , Peenya Industrial Area ,Bangalore -560058		
Ref. No & Date	2081 & 08-04-2026	Sample Received on	08-04-2026
Sample Description	Sample	Test Completed on	09-04-2026
Sample Details:	ASTM A182 Gr.F316-25a,Heat No - FD900, HT Batch No - PC3881		
Test :	Intergranular Corrosion (Practice E)		

### Discipline : Mechanical, Group : Metallography Test

**Intergranular Corrosion Test (Practice E)**    **Test Method : ASTM A262:2015 (RA2021)**    **Tested on : 09-04-2026**  
 Eqt Name : Metallurgical Microscope (MEIJI)    Model No:MT7100L    Calibration Date: 08-APR-26  
 Make:MEIJI    SL No.:2100082    Due Date:07-APR-27

Parameter	Result
Sensitization Heat Treatment	675°C/1hr
Test Solution	100g CuSo4+100ml H2SO4 + Diluted to 1000ml with reagent water
Start of the Test (Date & Time)	08-04-2026 05:00PM
Duration of Test	16 Hrs
End of the Test (Date & Time)	09-04-2026 09:00AM
Bend Test	1T/180°
Evaluation of Bend Test	No Cracks or No IGC Fissures Observed
Micro Structure at 250x	Step Structure
Remarks	Test found satisfactory



Mag: 20x



Mag: 250x

.....END OF REPORT.....

ARSHA A S  
Chemist

Checked by

JC Valvulas India Pvt. Ltd.  
Chennai, Tamil Nadu, India  
Verified & Accepted  
Q.A. C. Sathish

R M Chandraiah  
QUALITY MANAGER

Authorised Signatory



Note: This report relates only to the particular sample submitted for test. Any correction in the report will invalidate this report. Sample will be destroyed after 2 weeks from the date of completion of tests unless informed by the customer. Any complaints about this report should be communicated in writing within 2 weeks of the issue of this report. This report cannot be reproduced except in full & cannot be used as an evidence in the court of law & should not be used in any advertising media without the written permission from Laboratory. Sample descriptions are given as described by the customer. +Computed value only for reference. Decision rule: Statement of Conformity as per simple acceptance rule agreed with customer.

